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(54) SUSPENSION ARCHITECTURE FOR STEER-BY-WIRE VEHICLE

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(57) ABSTRACT

A vehicle has a wheel, a frame, a suspension component, a steering knuckle, and a steering system. The suspension component is connected to the frame. The steering knuckle is connected to the suspension component and is connected to the wheel. The suspension component is operable to control vertical movement of the steering knuckle and the wheel relative to the frame. The suspension component and the steering knuckle define a steering axis for the wheel. The steering axis has a caster inclination angle of zero degrees. The steering system is connected to the suspension component and controls a steering angle of the wheel based on an electronic control signal.

19 Claims, 12 Drawing Sheets

